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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Makoto NAKAMURA**

Group Art Unit: **2611**

Application Number: **10/530,323**

Examiner:

Filed: **April 5, 2005**

Confirmation Number: **9704**

For: **DIGITAL COMMUNICATION METHOD AND DIGITAL
COMMUNICATION DEVICE**

Attorney Docket Number: **052387**

Customer Number: **38834**

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

May 18, 2007

Sir:

In compliance with 37 C.F.R. §1.56, Applicants direct the attention of the Patent and Trademark Office to the documents listed on the attached PTO/SB/08. This paper is being filed within the time periods set forth in 37 C.F.R. §1.97(b). A copy of each non-U.S. document is enclosed herewith.

If there are any fees due in connection with the filing of this paper, please charge Deposit Account No. 50-2866.

Respectfully submitted,

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Enclosures: PTO/SB/08
13 Documents

Combined Form PTO/SB/08A&B <u>INFORMATION DISCLOSURE</u> <u>STATEMENT BY APPLICANT</u> (use as many sheets as necessary)		<i>Complete if Known</i>	
		Application Number	10/530,323
		Confirmation Number	9704
		Filing Date	April 5, 2005
		First Named Inventor	Makoto NAKAMURA
		Art Unit	2611
		Examiner Name	Jayanti K. Patel
Sheet 1 of 1	Attorney Docket Number	052387	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ³ (if known)		
	1	US 5,621,580	A	04-15-1997	Cruz et. al
	2	US 3,110,862	A	11-12-1963	N.E CHASEK

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
	3	EP	0 282 298	A2	09-14-1988	FORD AEROSPACE & COMMUNICATIONS CORPORATION	N/A, Cited in No.
	4	JP	54-055355	A	05-02-1979	FUJITSU LTD.	Abstract, Cited in No. 15
	5	JP	08-180607	A	07-12-1996	CRUZ R. JOAO, KRUEGER J. DANIEL	Yes (JPO), Cited in No. 15
	6	JP	10-285229	A	10-23-1998	NIPPON MOTOROLA LTD.	Yes (JPO), Cited in No. 15

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
	7	Office Action from European Patent Office dated March 26, 2007, issued in corresponding European Patent Application No. 03 748 684.2.	
	8	MARC C. NECKER et al., "Totally Blind Channel Estimation for OFDM over Fast Varying Mobile Channels", 2002 IEEE International Conference on Communications, 2002, pages 421-425.	Cited in No. 7
	9	Supplementary European Search Report dated September 26, 2006, issued in corresponding European Patent Application No. 03748684.2.	
	10	BERNA SAYRAC et al., "Design and Evaluation of Two Block Coded Modulation Schemes", Electrotechnical Conference, IEEE, April 12, 1994, pages 215-218.	Cited in No. 9
	11	JOHN J. KOMO et al., "Evaluation of three-and five-phase PSK", Proceedings of Southeast Conference, IEEE, Vol. 1, April 7, 1991, pages 1030-1033.	Cited in No. 9
	12	MAKOTO NAKAMURA et al. "Ternary Phase Shift Keying and Its Performance", Wireless Personal Multimedia Communications, 2002, pages 1284-1288.	Cited in No. 9
	13	S.K. Hong, "Prime valued space-time convolutional Z code achieving full 2-level diversity", ELECTRONICS LETTERS, February 19, 2004, Vol. 40 No. 4, pages 253-254.	Cited in No. 9
	14	J.R. PIRECE, "Comparison of Three-Phase Modulation with Two-Phase and Four-Phase Modulation", IEEE TRANSACTIONS ON COMMUNICATIONS, Vol. 28, No. 7, July 1980.	Cited in No. 9
	15	Office Action from JPO dated December 1, 2006, issued in corresponding Japanese Patent Application No. 2004-568782.	Yes

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.